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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>7</sup> :</b> <b>C12Q 1/68</b>	<b>A2</b>	<b>(11) International Publication Number:</b> <b>WO 00/14281</b> <b>(43) International Publication Date:</b> 16 March 2000 (16.03.00)
<b>(21) International Application Number:</b> PCT/US99/18950 <b>(22) International Filing Date:</b> 23 August 1999 (23.08.99)  <b>(30) Priority Data:</b> 09/138,195                      21 August 1998 (21.08.98)                      US  <b>(71) Applicant:</b> NAXCOR [US/US]; Suite 220, 4600 Bohannon Drive, Menlo Park, CA 94025 (US).  <b>(72) Inventors:</b> HUAN, Bingfang; 10266 Mann Drive, Cupertino, CA 95014 (US). ALBAGLI, David; 1080 San Mateo Drive, Menlo Park, CA 94025 (US). WOOD, Michael, L.; 36 Tyrella Court, Mountain View, CA 94043 (US). VAN ATTA, Reuel, B.; 505 Cypress Point Drive, No. 224, Mountain View, CA 94043 (US). CHIENG, Peter, C.; 1162 Robalo Court, San Jose, CA 95132 (US).  <b>(74) Agents:</b> CHOW, Y., Ping et al.; Heller Ehrman White & McAuliffe, 525 University Avenue, Palo Alto, CA 94301-1900 (US).		<b>(81) Designated States:</b> AU, CA, CN, JP, KR, KR (Utility model), MX, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>
<b>(54) Title:</b> ASSAYS USING CROSSLINKABLE IMMOBILIZED NUCLEIC ACIDS		
<b>(57) Abstract</b>  Improved methods for <i>in situ</i> hybridization assays of cellular and subcellular systems and tissue sections, and immobilization-based assay techniques such as Northern blotting, Southern blotting, dot blots, and the like, and assay techniques wherein the probes are bound to substrates are disclosed. The subject invention employs crosslinker containing hybridization probes capable of forming covalent bonds between the probe and the target nucleic acid. Upon activation, the crosslinker will, if the probe has hybridized with its essentially complementary target, form covalent bonds with the complementary strand to covalently crosslink the probe to the target. Subsequently, stringent wash conditions may be employed to reduce background signals due to non-specific absorption or probes or targets, while retaining all crosslinked probe/target hybrids. Also disclosed are diagnostic kits for use in clinical and diagnostic laboratories.		